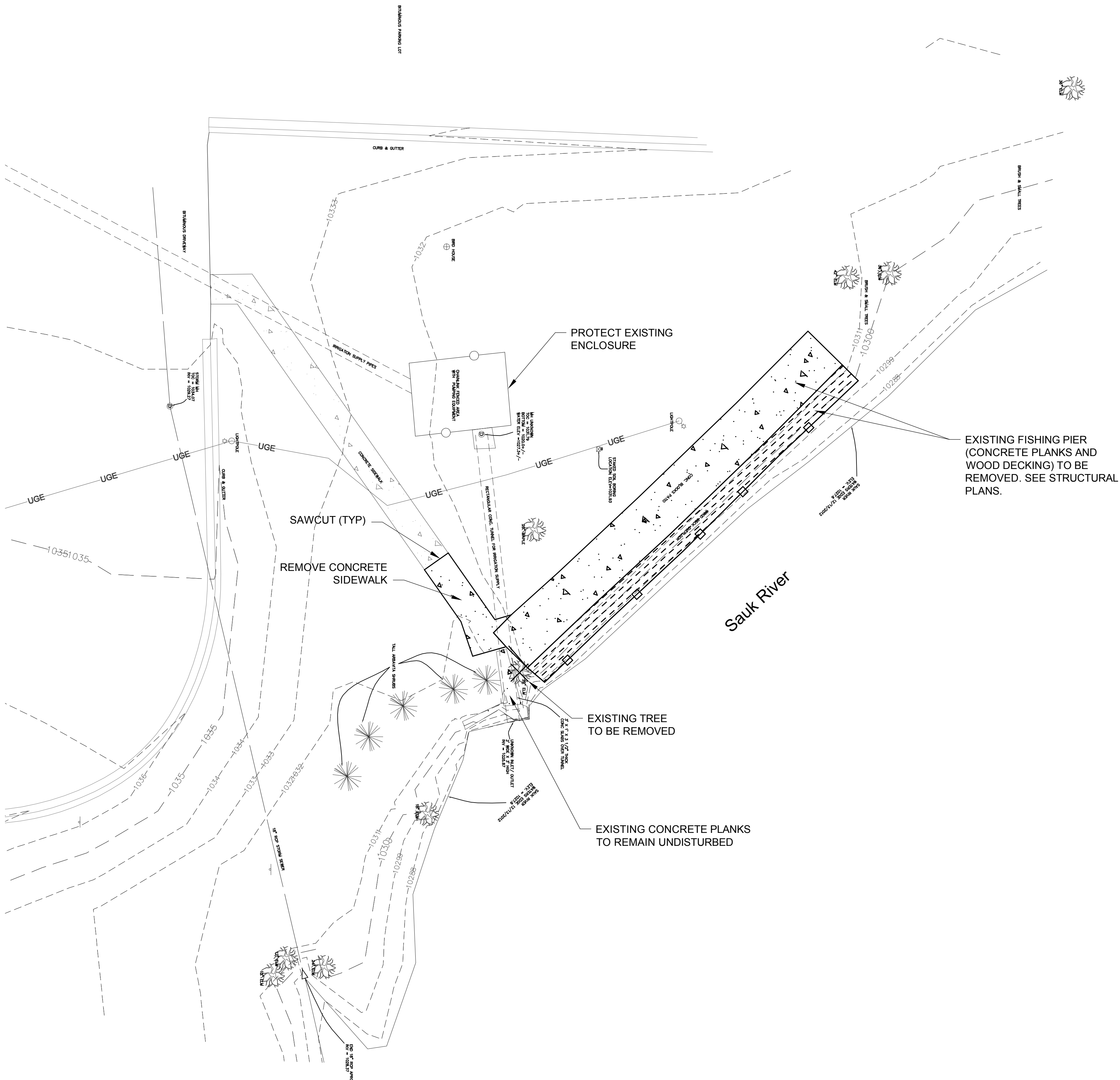
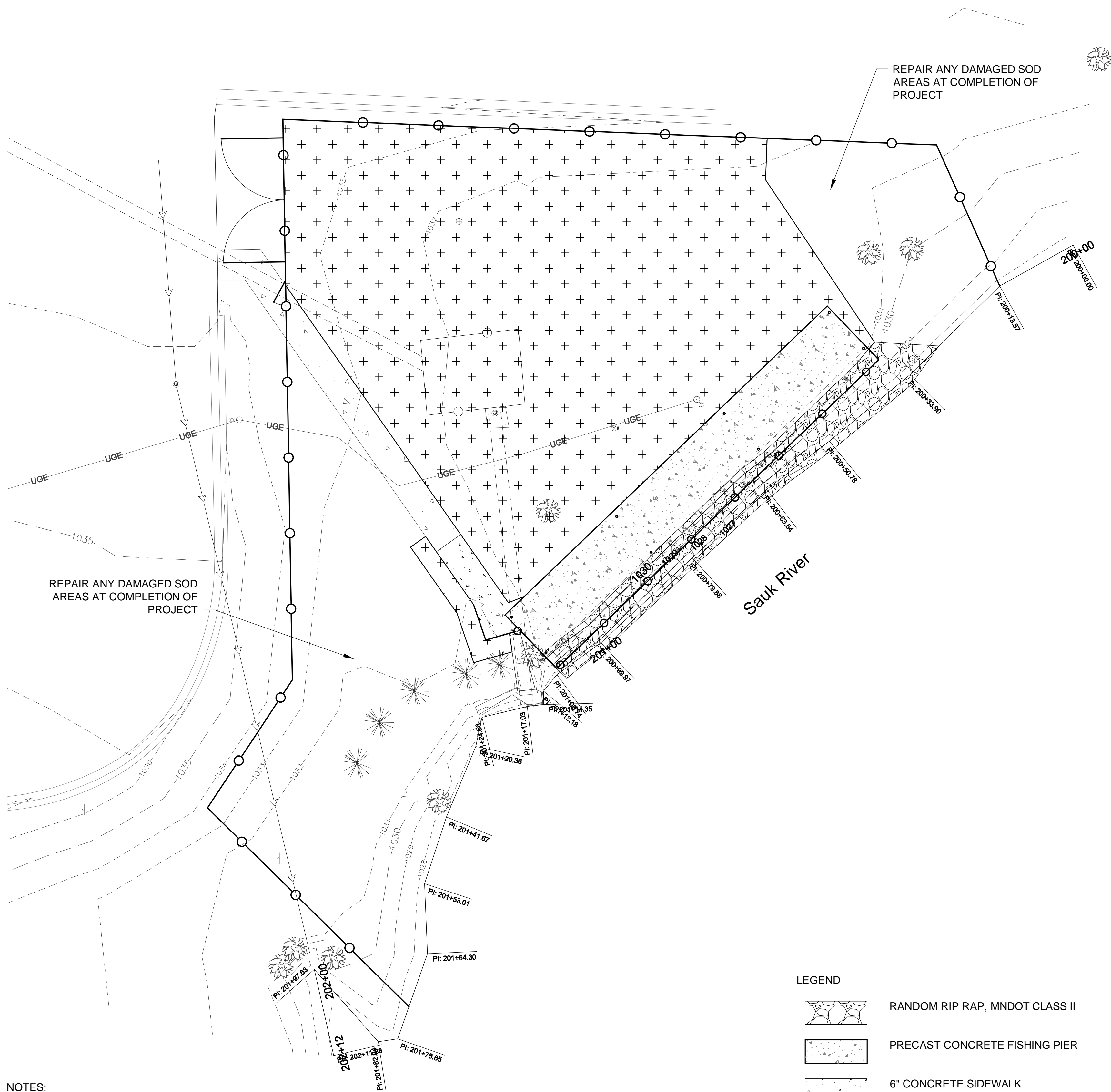


EXISTING CONDITIONS AND DEMOLITION PLAN

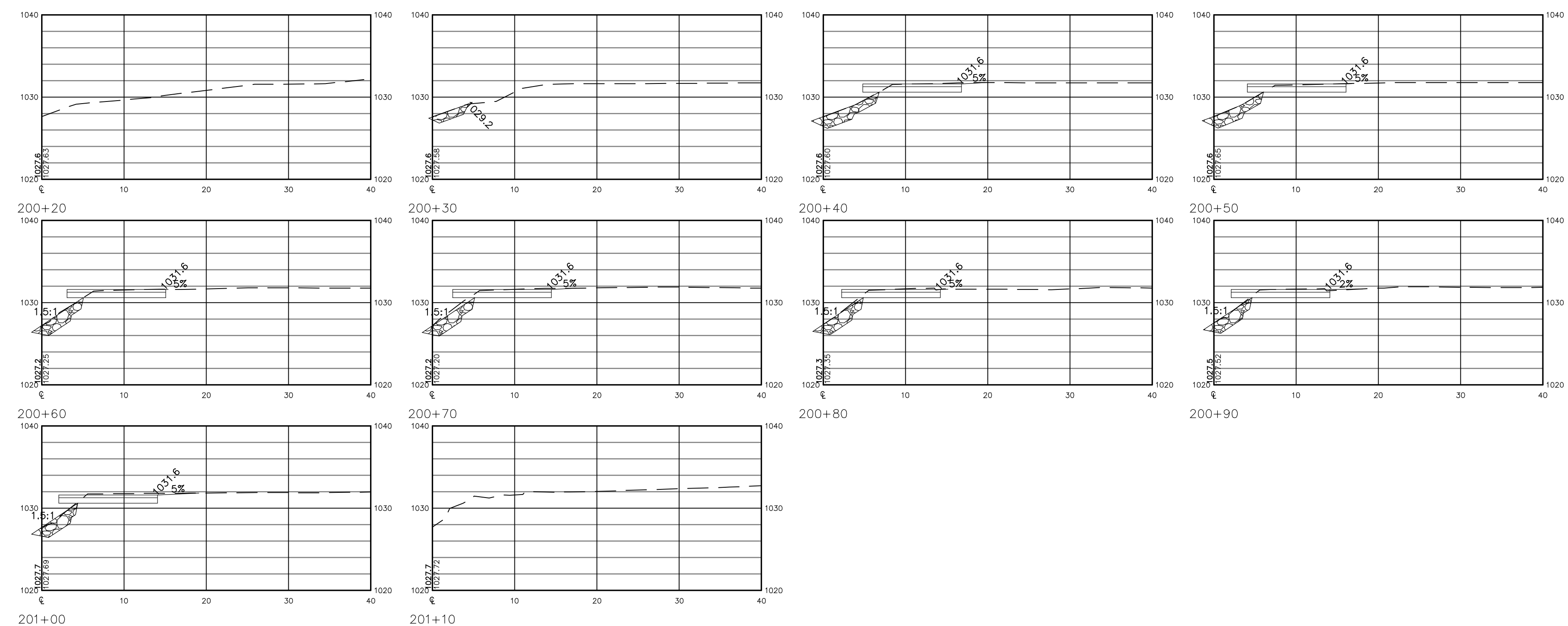
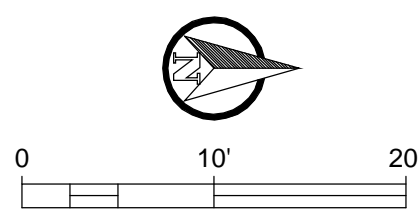


three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



- NOTES:
1. SALVAGE AND REPLACE EXISTING TOPSOIL. SCREEN PRIOR TO PLACEMENT AND FERTILIZE UPON STABILIZATION.
 2. SILT FENCE SHALL BE PROVIDED ON ALL AREAS DOWN GRADIENT OF CONSTRUCTION ACTIVITY.
 3. INLET PROTECTION SHALL BE PROVIDED ON ALL CATCH BASINS AND INLETS DOWN GRADIENT OF CONSTRUCTION ACTIVITY.
 4. ALL DISTURBED AREAS SHALL BE RESTORED WITH 6" MINIMUM TOPSOIL AND STABILIZED WITH SEED, FERTILIZER, MULCH AND DISC ANCHOR.
 5. PROVIDE ROCK CONSTRUCTION ENTRANCE(S). IF SEDIMENT TRACKING SHOULD OCCUR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SWEEP STREETS AS NECESSARY TO MINIMIZE SEDIMENT TRACKING.
 6. WATERS EDGE ELEVATION MAY FLUCTUATE FROM THAT SHOWN. RIP RAP SHALL BE PLACED FROM BOTTOM OF FISHING PIER TO WATERS EDGE, AS INDICATED ON THE CROSS SECTIONS.

- LEGEND
- RANDOM RIP RAP, MNDOT CLASS II
 - PRECAST CONCRETE FISHING PIER
 - 6" CONCRETE SIDEWALK
 - SEED (MNDOT MIX 260), FERTILIZE, MULCH AND DISC ANCHOR (AS REQUIRED)
 - SILT FENCE (AS REQUIRED)
 - FLOW DIRECTION



SEQUENCE OF CONSTRUCTION:

1. INSTALL STABILIZED ROCK CONSTRUCTION ENTRANCE(S).
2. PROVIDE ORANGE CONSTRUCTION FENCE AROUND ENTIRE PERIMETER OF CONSTRUCTION AREA (SEE DETAIL X/CX.X).
3. INSTALL SILT FENCE.
4. CONTACT OWNER'S REPRESENTATIVE TO INSPECT BMP'S. GENERAL CONTRACTOR SHALL HOLD A STORM WATER PRE-CONSTRUCTION MEETING WITH ALL HIS SUB-CONTRACTORS PRIOR TO CONSTRUCTION.
5. PROVIDE INLET PROTECTION ON INLETS DOWN GRADIENT OF CONSTRUCTION ACTIVITY.
6. BEGIN GRADING THE SITE. INSTALL FISHING PIER, PLACE RIP RAP.
7. TEMPORARILY SEED DISTURBED AREAS AND STABILIZE WITHIN 24 HOURS OF ACTIVELY BEING WORKED.
8. BACKFILL ALL TRENCHES IMMEDIATELY, AND AT THE END OF THE WORKING DAY. NO OPEN TRENCHES ALLOWED OVERNIGHT.
9. REINSTALL ANY DISTURBED INLET PROTECTION DEVICES.
10. CONSTRUCT CONCRETE SIDEWALK.
11. COMPLETE FINAL GRADING WITH SALVAGED (SCREENED) TOPSOIL. FERTILIZE AND STABILIZE WITH SEED IMMEDIATELY AFTER COMPLETION OF GRADING.
12. ALL EROSION AND SEDIMENT CONTROL BMP'S TO BE APPROVED BY THE VA.
13. CONTRACTOR TO HAVE CERTIFIED PERSONNEL TO FOLLOW ALL SWPPP REQUIREMENTS.
14. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED, AND APPROVED BY THE VA.)
15. CONTRACTOR TO WORK WITH THE VA TO OBTAIN ALL REQUIRED PERMITS.
16. ALL DISTURBED AREAS SHALL BE RESTORED AND STABILIZED WITHIN 7 DAYS OF CONSTRUCTION.

ESC TIME SCHEDULE

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR PROJECT SCHEDULE

CONSTRUCTION SEQUENCE (MONTH)			
TEMPORARY CONTROL MEASURES			
STRIP AND STOCKPILE TOPSOIL			
ROUGH GRADE SEDIMENT CONTROL			
SITE CONSTRUCTION			
FINISH GRADING			
TURF ESTABLISHMENT			

OWNER:

BARRY BAHL (OR DESIGNEE)
ST. CLOUD VA HEALTHCARE SYSTEM
4801 VETERANS DRIVE
ST. CLOUD, MN 56303

GENERAL CONTRACTOR:

CONTRACTOR SWPPP QUALIFIED PERSONNEL:

EROSION CONTROL QUANTITIES:

SEED, FERTILIZER, MULCH AND DISC ANCHOR	560 SY
ROCK CONSTRUCTION ENTRANCE	85 SY
ORANGE CONSTRUCTION FENCE	310 LF
RANDOM RIP RAP, MNDOT CLASS II	25 CY

100% CD'S - FOR CONSTRUCTION



Alexandria Office
120 17th Avenue W.
Alexandria, MN 56308
(507) 752-1290

St. Cloud Office
3339 West St. Germain, Suite 250
St. Cloud, MN 56301
(320) 217-5557



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I HEREBY CERTIFY THAT THIS PLAN
IS A TRUE AND CORRECT REPRESENTATION
OF THE WORK DONE BY ME OR UNDER MY
SUPERVISION AND THAT I AM A QUALIFIED PROFESSIONAL
ENGINEER, UNDER THE LAWS OF THE STATE OF
MINNESOTA.

GINA M. DALLINGER, PE REG. NO.
DATE: 02-01-2013

DRAWING TITLE
GRADING AND EROSION CONTROL
PLAN - FISHING PIER

PROJECT TITLE
REPAIR ABANDONED
BRIDGE ABUTMENT

BUILDING NO.
CHECKED BY
D.J.F.

DRAWN
GMD

LOCATION
VA MEDICAL CENTER
ST. CLOUD, MN 56303

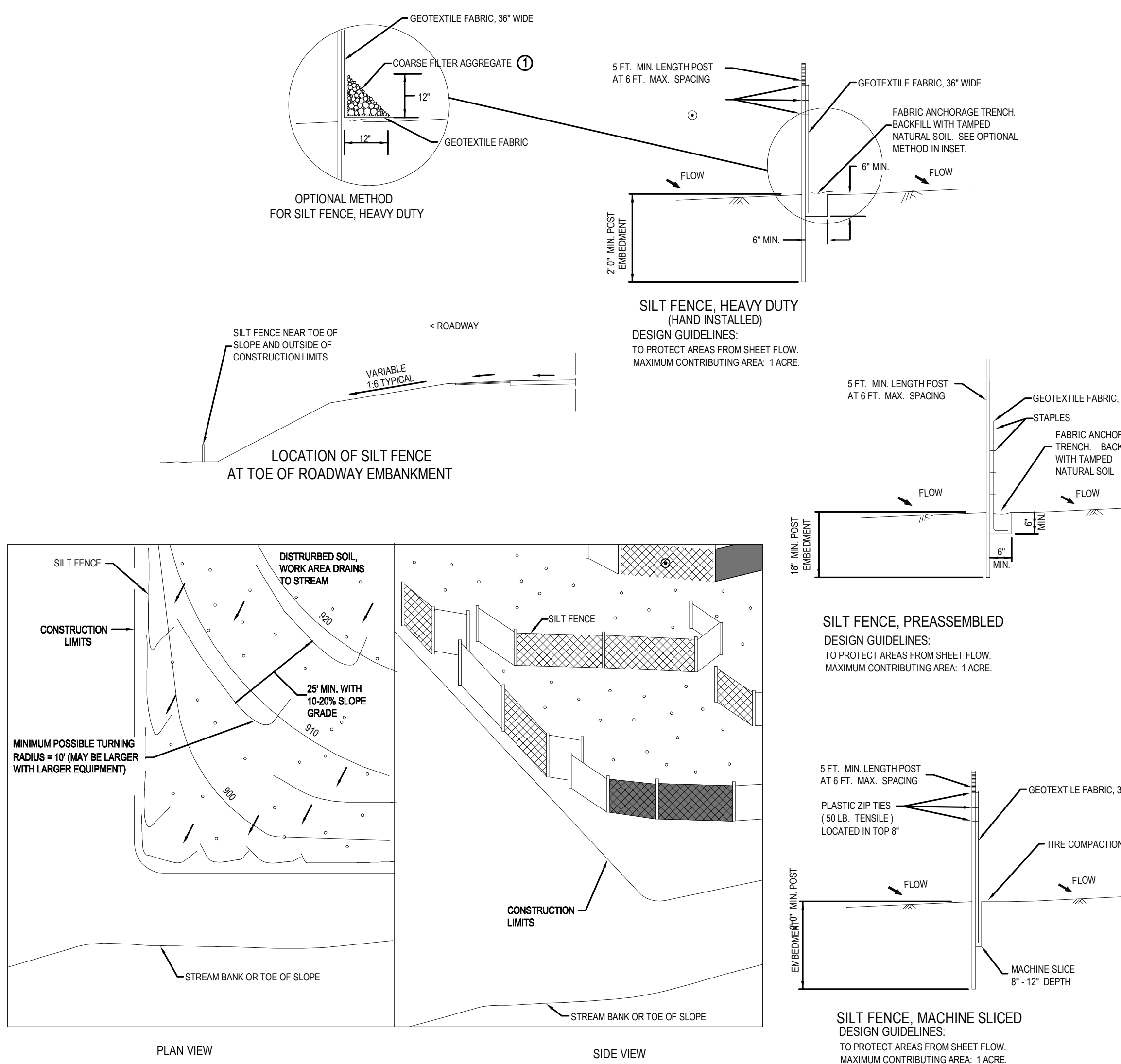
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PROJECT NO.
656-13-233

SHEET NO.
C2.1

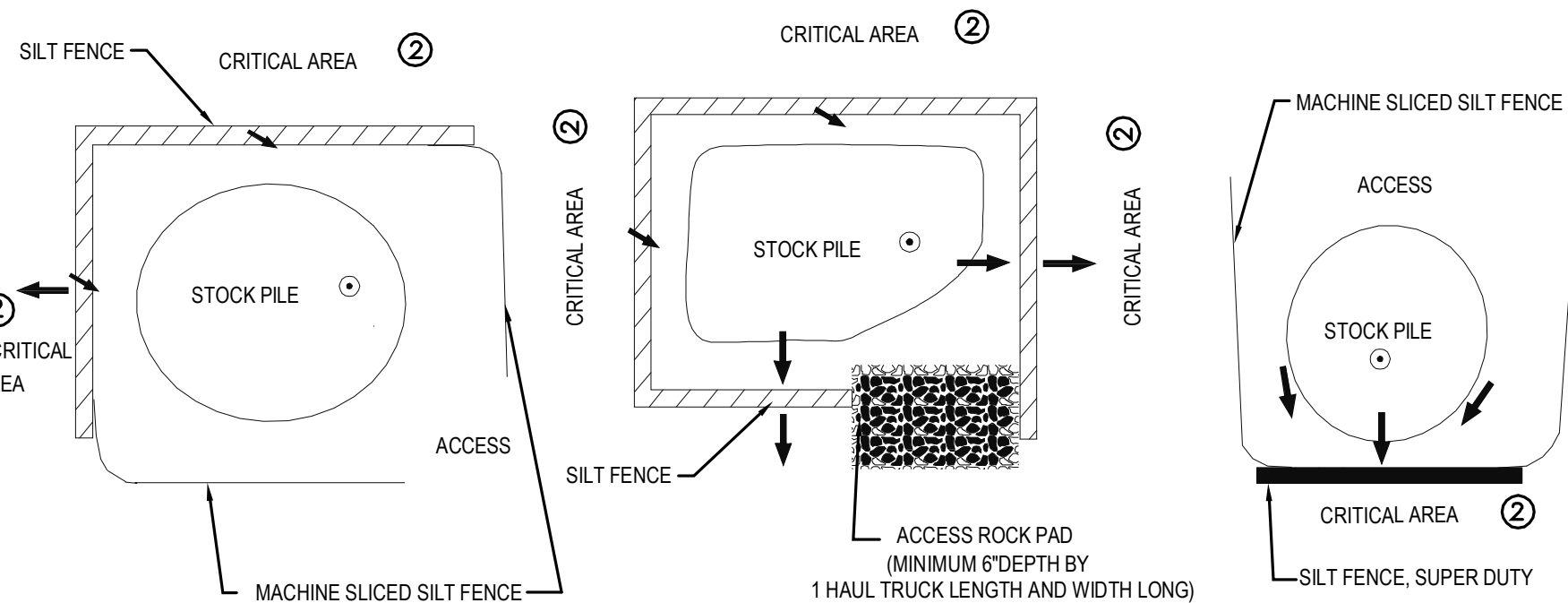
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SILT FENCE DETAILS

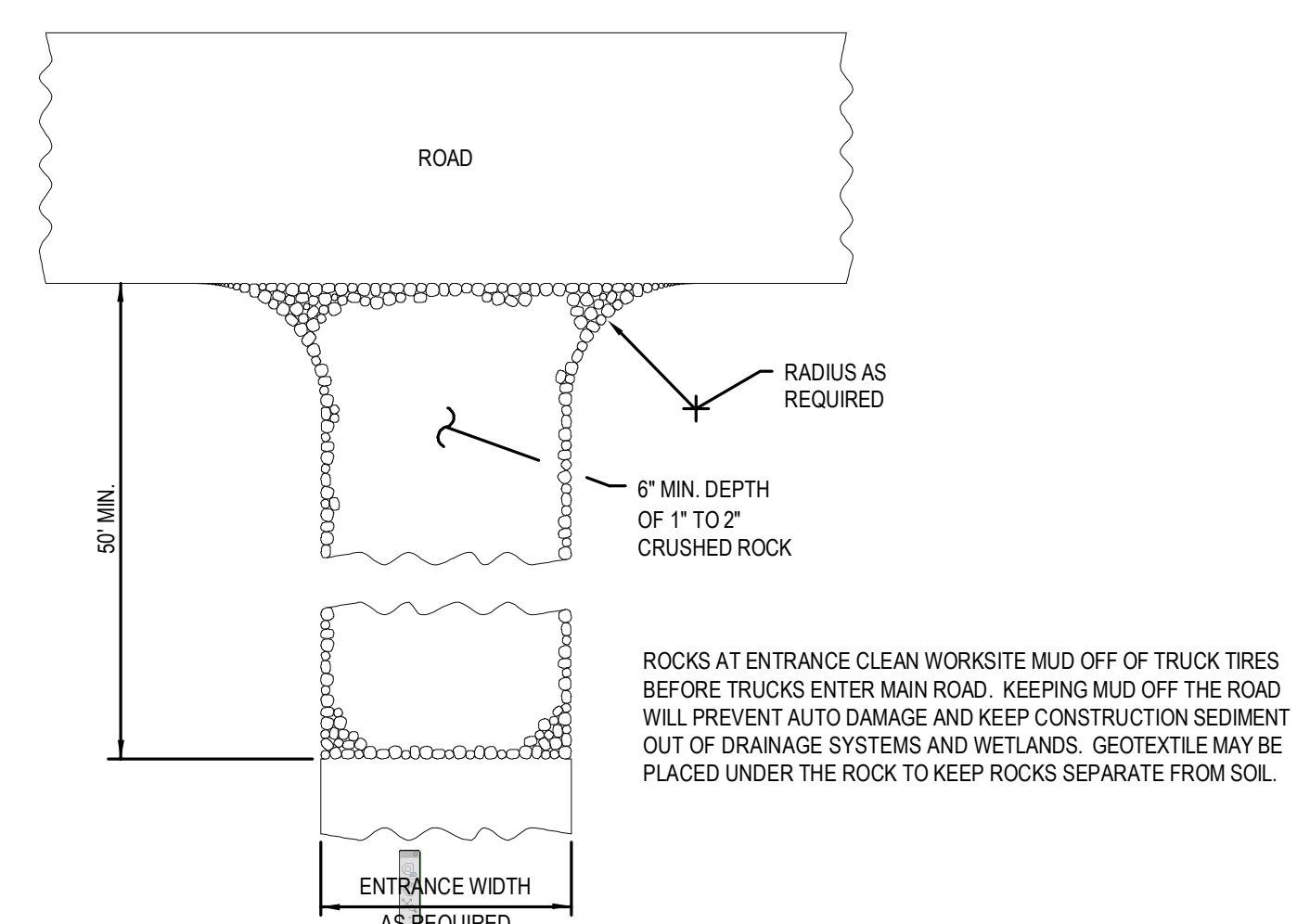
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- PLACING STOCK PILES NEXT TO AN ENVIRONMENTALLY SENSITIVE AREA IS NOT RECOMMENDED WHEN THERE ARE NO FEASIBLE ALTERNATIVES. THE SILT FENCE IS TO BE USED AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- CRITICAL AREAS INCLUDE WETLANDS, JUDICIAL DITCHES, STREAMS, WATER BODIES, AND OTHER AREAS REQUIRING PROTECTION.

STOCK PILE CONTAINMENT

NTS

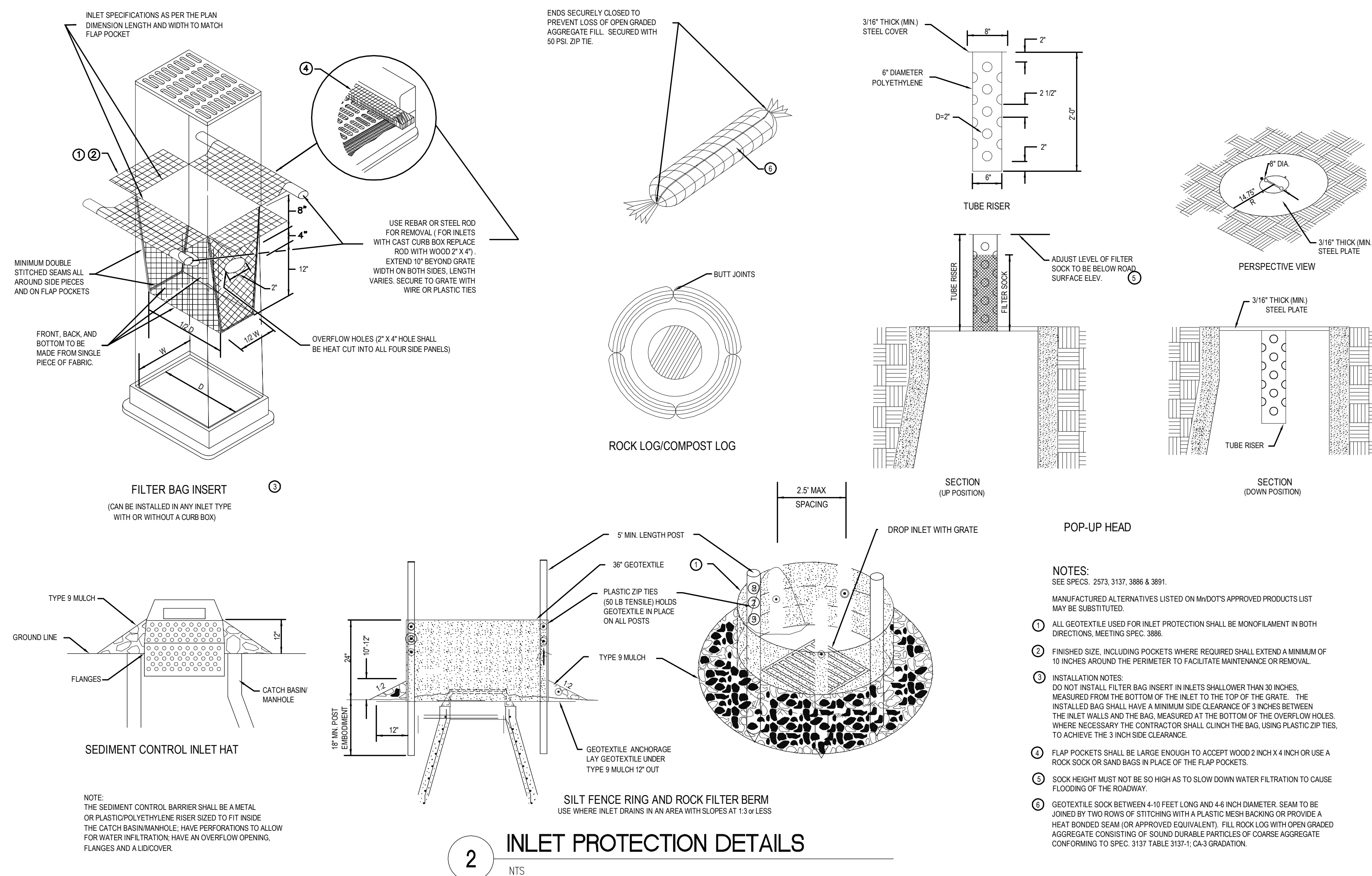


ROCK CONSTRUCTION ENTRANCE

NTS

EROSION NOTES

- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE CODES AND BE CONSTRUCTED AS SUCH. WHERE A CONFLICT EXISTS BETWEEN LOCAL JURISDICTIONS STANDARD SPECIFICATIONS AND DESIGN TREE ENGINEERING STANDARD SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY.
- THE CONTRACTOR IS CAUTIONED THAT THE LOCATIONS AND/OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND THE VA. THE SUBSURFACE UTILITY INFORMATION SHOWN IS LEVEL D. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES. THE LOCATIONS OF UTILITIES SHALL BE OBTAINED BY CALLING MINNESOTA GOPHER STATE ONE CALL AND THE VA.
- THE DESIGN SHOWN IS BASED UPON THE ENGINEERS UNDERSTANDING OF THE EXISTING CONDITIONS. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY, IT WILL BE CONTRACTORS RESPONSIBILITY AND EXPENSE TO HAVE TOPOGRAPHIC SURVEY DONE BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO OWNER FOR REVIEW.
- THE CONTRACTORS SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES. CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES THAT MAY OCCUR.
- THE SWPPP IS COMPRISED OF THE EROSION AND SEDIMENT CONTROL PLAN, THE STANDARD DETAILS, THE SWPPP NARRATIVE, PLUS THE PERMIT AND ALL RELATED DOCUMENTS.
- THE CONTRACTOR SHALL ASSIST THE VA IN COMPLETING AND SUBMITTING THE APPLICATION FOR THE MPCA GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE SWPPP AND NPDES PERMIT AND BECOME FAMILIAR WITH THEIR CONTENTS. THE SWPPP AND ALL OTHER RELATED DOCUMENTS MUST BE KEPT ON SITE DURING CONSTRUCTION. CONTRACTOR MUST PROVIDE CERTIFIED PERSONNEL FOR SWPPP RECORDS.
- CONTRACTOR SHALL IMPLEMENT BMP'S AS REQUIRED BY THE SWPPP AND PERMITS. THE CONTRACTOR SHALL OVERSEE THE INSPECTION AND MAINTENANCE OF THE BMP'S AND EROSION AND SEDIMENT PREVENTION FROM BEGINNING OF CONSTRUCTION TO COMPLETION OF CONSTRUCTION, AND NOTICE OF COMPLETION HAS BEEN FILED WITH THE MPCA BY EITHER THE OWNER OR THE OPERATOR ON THE PERMIT. ADDITIONAL BMP'S AND MAINTENANCE SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- BMP'S SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- ESC PLAN MUST CLEARLY DELINEATE ALL STATE WATERS, PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- THE CONTRACTOR SHALL MINIMIZE CLEARING AS REQUIRED BY THE GENERAL PERMIT. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY DELINEATED ON THE SITE BEFORE WORK BEGINS.
- GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AREA, EMPLOYEE PARKING AREA, AND AREA FOR PORTABLE FACILITIES. NO VEHICLE CLEANING ALLOWED ON SITE.
- NO TRUCK WASHOUT ALLOWED ON SITE.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS SHALL BE MAINTAINED ON SITE AND READILY AVAILABLE FOR USE.
- DUST ON THE SITE SHALL BE CONTROLLED.
- SOLID WASTE: CONSTRUCTION WASTE MUST BE DISPOSED OF PROPERLY, AND COMPLY WITH MPCA REQUIREMENTS.
- HAZARDOUS MATERIALS MUST BE PROPERLY STORED IN CONTAINERS, AND PROTECTED FROM ELEMENTS.
- ALL STORM WATER POLLUTION PREVENTION MEASURES ON THIS PLAN, AND IN THE SWPPP, MUST BE INITIATED PRIOR TO ANY SITE WORK.
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED SHALL BE TEMPORARILY SEEDED. SEEDING WILL BE IN ACCORDANCE WITH MNDOT SPEC. 2575.
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY ESTABLISHED.
- CONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT FROM CONVEYANCES AND FROM TEMPORARY SEDIMENT BASINS.
- ON AND OFF SITE SOIL STOCK PILES AND BORROW AREAS SHALL BE PROTECTED WITH BMP'S.
- TEMPORARY STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT AND EROSION CONTROLS.
- SLOPES SHALL BE LEFT IN A ROUGH CONDITION TO HELP ELIMINATE RILLING.
- DUE TO GRADE CHANGES DURING THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE ESC MEASURES TO PREVENT EROSION AND SEDIMENTATION.
- ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH DAY. THIS INCLUDES BACKFILLING OF TRENCHES AND PLACEMENT OF GRAVEL OR BITUMINOUS.
- NO STOCKPILE OF MATERIALS NOT TO BE USED ON SITE.
- ALL EXCESS MATERIALS TO BE REMOVED FROM SITE DAILY.
- NO CONCRETE WASHOUT ALLOWED ON VA PROPERTY - TRUCKS TO BE TAKEN OFF SITE.



- NOTES:**
SEE SPEC. 2573.3137, 3886 & 3891.
MANUFACTURED ALTERNATIVES LISTED ON MNDOT'S APPROVED PRODUCTS LIST MAY BE SUBSTITUTED.
- ALL GEOTEXTILE USED FOR INLET PROTECTION SHALL BE MONOFILAMENT IN BOTH DIRECTIONS, MEETING SPEC. 3886.
 - FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10 INCHES AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
 - INSTALLATION NOTES:**
DO NOT INSTALL FILTER BAG INSERT IN INLETS SHALLOWER THAN 30 INCHES. MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE OF 3 INCHES BETWEEN THE INLET WALLS AND THE BAG. MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES. WHERE NECESSARY THE CONTRACTOR SHALL CLIMB THE BAG, USING PLASTIC ZIP TIES TO ACHIEVE THE 3 INCH SIDE CLEARANCE.
 - FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2 INCH X 4 INCH OR USE A ROCK SOCK OR SAND BAGS IN PLACE OF THE FLAP POCKETS.
 - SOCK HEIGHT MUST NOT BE SO HIGH AS TO SLOW DOWN WATER FILTRATION TO CAUSE FLOODING OF THE ROADWAY.
 - GEOTEXTILE SOCK BETWEEN 4-10 FEET LONG AND 4-6 INCH DIAMETER. SEAM TO BE JOINED BY TWO ROWS OF STITCHING WITH A PLASTIC MESH BACKING OR PROVIDE A HEAT BONDED SEAM (OR APPROVED EQUIVALENT). FILL ROCK LOG WITH OPEN GRADED AGGREGATE CONSISTING OF SOUND DURABLE PARTICLES OF COARSE AGGREGATE CONFORMING TO SPEC. 3137 TABLE 3137.1 C313 GRADES.



Alexandria Office
120 17th Avenue W.
Alexandria, MN 56308
(320) 752-1290

St. Cloud Office
1319 West St. Germain, Suite 250
St. Cloud, MN 56301
(320) 217-9557



Alexandria
525 Broadway Street
Alexandria, MN 56308
phone 320.759.9030
facsimile 320.759.9062
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DATE: 02-01-2013

DRAWING TITLE
EROSION CONTROL/SWPPP DETAILS

PROJECT TITLE
REPAIR ABANDONED BRIDGE ABUTMENT

DATE
02.01.2013

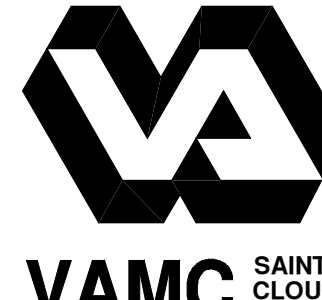
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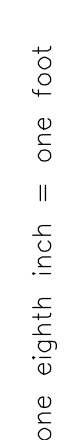
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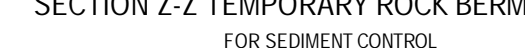
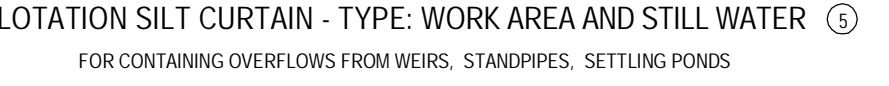
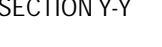
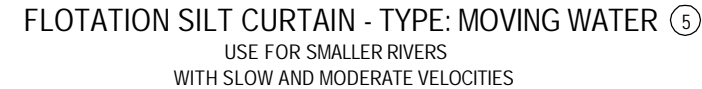
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DATE
02.01.2013





- NTS



- DESIGN GUIDELINES:
WORK AREA

- NOTES:
SEE PAGE 25

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